System Integration

Course Introduction

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Course Overview

💾 Architecture / topology of large systems

- Microservices vs. Monolithic
- Homogeneous vs. Heterogeneous systems
- Reliability, Scalability, Maintainability

💾 Class activities

- Writing code
- Applying theory

Exam

💾 Oral Exam

- 30 minute individual exam based on your synopsis on a topics chosen by **you**
- Presentation of your synopsis topic, discussion of the topic and related topics

💾 Synopsis topics

- Microservice design patterns
- Technology comparison for a specific use case
- Deployment and CI/CD
- Monitoring and Observability
- ...

Lectures

💾 You'll work on a single codebase throughout the course

- Practical activites of each lecture adds to the codebase
- You'll build something "large"
- You'll experience the pain of not writing maintainable code 🙂

💾 Compulsory assignments

- Documentation, discussion and demonstration of your work